

DRILL HOLES

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BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 97 (Georgia Ave) and Reedie Drive in Montgomery County. New conduit installation is required due to geometric improvements MD 97 (Georgia Ave) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA eight-phase, semi-actuated mode, with the MD 97 (Georgia Ave) approaches running concurrently. Exclusive/Permissive left turn phases shall continue to be provided for both approaches of MD 97 (Georgia Ave). The pedestrian phases with pushbutton actuation across both leg of MD 97 (Georgia Ave) shall remain in operation. The pedestrian phases across both legs of Reedie Drive shall remain on recall. The Exclusive/Permissive left turn phases on both legs of Reedie Drive shall continue to be provided. The Reedie Drive approaches shall also continue to run concurrently.
- The existing full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by Montgomery County Forces. Contact Dr. Wilhelm DerMinassian at (240) 777-8795 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. NUMBER	DESCRIPTION	QUANTITY
815	Saw cut for signal (loop detector).	105 L.F.
556	12" white heat applied permanent preformed thermoplastic pavement marking	280 L.F.
556	24" white heat applied permanent preformed thermoplastic pavement marking	70 L.F.
	Remove existing pavement markings	770 L.F.
805	1" liquid tight flexible non-metallic conduit for detector sleeve.	5 L.F.
805	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched	30 L.F.
805	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - trenched	45 L.F.
805	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - slotted.	110 L.F.
811	Furnish and install electrical handhole.	2 EA
810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).	430 L.F.

EQUIPMENT LIST (CONT.)

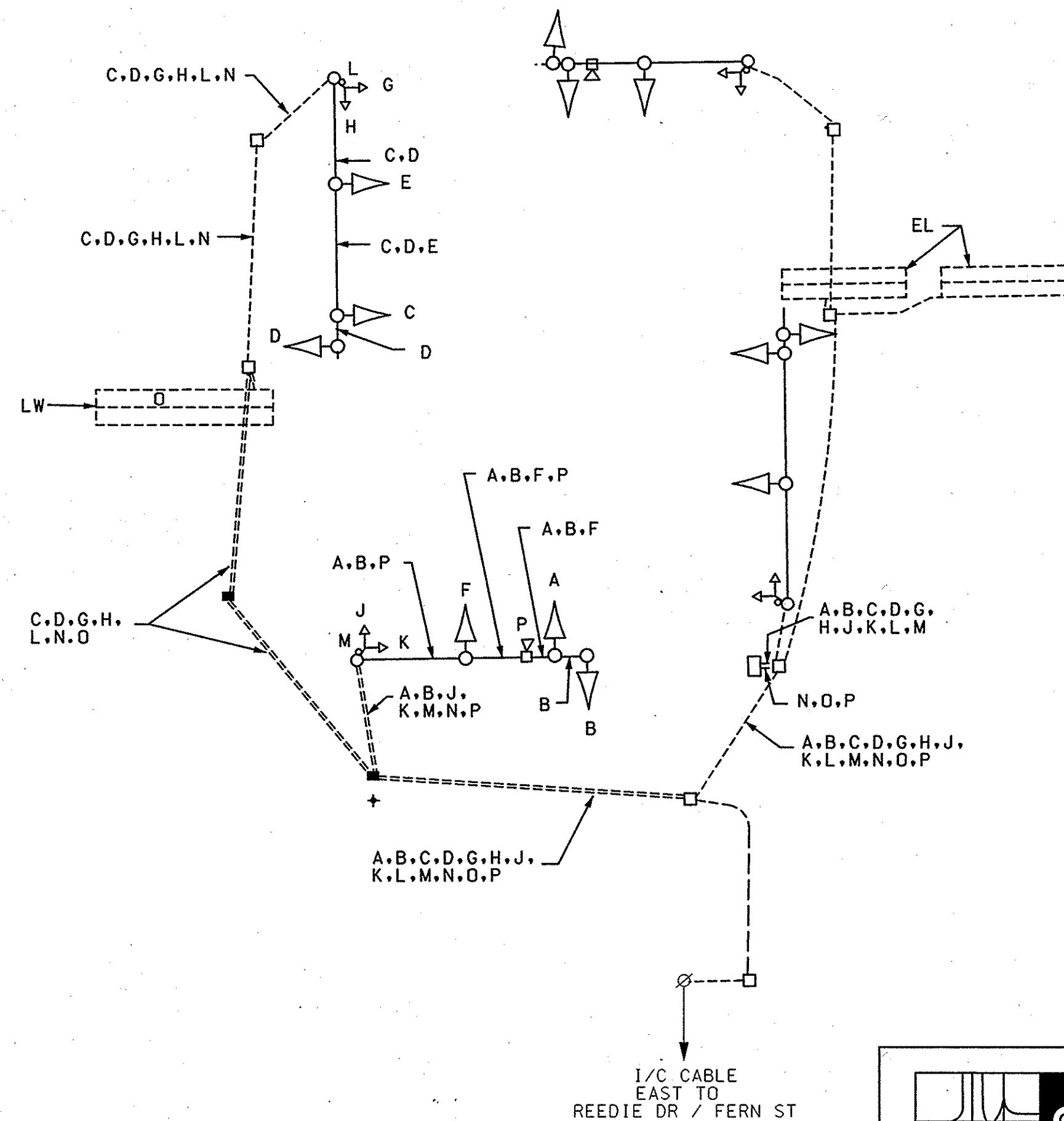
A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. NUMBER	DESCRIPTION	QUANTITY
810	Furnish and install 2-conductor electrical cable (No. 14 A.W.G.).	375 L.F.
810	Furnish and install 5-conductor electrical cable (No. 14 A.W.G.).	890 L.F.
810	Furnish and install 7-conductor electrical cable (No. 14 A.W.G.).	1025 L.F.
810	Furnish and install ground rod - 3/4" x 10'.	1 EA
810	Furnish and install No. 6 AWG stranded bare copper ground wire.	300 L.F.
	Canoga 4-conductor electrical cable (No. 14 A.W.G.) (shielded).	355 L.F.
	Remove existing handhole	3 EA
	Remove and dispose of existing conduit.	80 L.F.

PHASE CHART

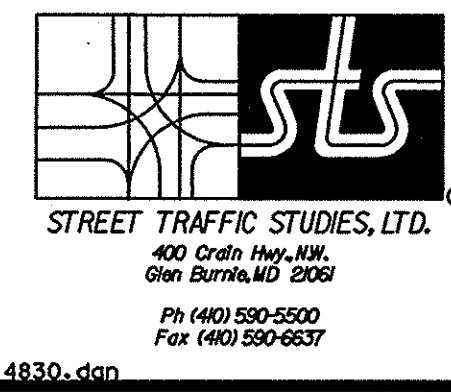
THERE IS NO CHANGE TO THE PHASING FOR THIS PROJECT

WIRING DIAGRAM



WIRING KEY	
A	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D	4-CONDUCTOR CANOGA CABLE (NO. 14 A.W.G.) SHIELDED
E	EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
F	LW - LOOP WIRE (NO. 14 A.W.G.)
G	GROUND ROD

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION			
MD 97 (GEORGIA AVE) AND REEDIE DRIVE			
SCALE NONE DATE 9/12/05 CONTRACT NO. 996M82			
DESIGNED BY RRZ		COUNTY MONTGOMERY	
DRAWN BY RC		LOGMILE 15009703.27	
CHECKED BY		TIMS NO. H310	
F.A.P. NO.		TOD NO.	
TS NO.	DRAWING NO.	OF	SHEET NO. 2 OF 2



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FILE: \$FILE\$